



OICE

#4

RAW SEQUENCE LISTING

DATE: 05/07/2002

PATENT APPLICATION: US/09/888,182A

TIME: 14:50:40

Input Set : A:\EP.txt

Output Set: N:\CRF3\05072002\I888182A.raw

ENTERED

3 <110> APPLICANT: Vertex Pharmaceuticals Incorporated
 5 <120> TITLE OF INVENTION: ERK-5 DEFICIENT ANIMALS AND METHODS OF INHIBITING
 ANGIOGENESIS THROUGH
 6 THE INHIBITION OF ERK-5
 8 <130> FILE REFERENCE: VPI/00-115
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/888,182A
 11 <141> CURRENT FILING DATE: 2001-06-22
 13 <150> PRIOR APPLICATION NUMBER: US60/214,044
 14 <151> PRIOR FILING DATE: 2000-06-23
 16 <160> NUMBER OF SEQ ID NOS: 6
 18 <170> SOFTWARE: PatentIn version 3.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 26
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Mus musculus
 25 <400> SEQUENCE: 1
 26 cagccattcg atgtgggccc acgcta 26
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 30 <211> LENGTH: 25
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Mus musculus
 34 <400> SEQUENCE: 2
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 38 <210> SEQ ID NO: 3
 39 <211> LENGTH: 802
 40 <212> TYPE: DNA
 41 <213> ORGANISM: Mus musculus
 43 <220> FEATURE:
 44 <221> NAME/KEY: misc_difference
 45 <222> LOCATION: (1)..(802)
 46 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
 49 <400> SEQUENCE: 3
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 52 ggagacacag tgggatcag cttagaagcc caggttcagt aatactgaag ttctggcagg 120
 54 gcggttgaac ccagagtgat gcgggctgtg agtccaggac attggtaggg acagttctta 180
 56 tctctcaaga gggcaagggc tgggatgtc gatcactggg aggctgatga gcactcttga 240
 58 ggttttaggt tgactctcct gtacaaaagg ggaaaagaat caagaggatt tacctcttta 300
 60 tggatcatgcc acctttggtt atatcataag ttcaaggcta gtctagaccg tgttccaaaa 360
 W--> 62 gacaaaacan aaaaccnaaa cagcaatnta nganaaggga gagagggcnc agacnngnccg 420
 64 ggacagatcc aaattgtaag acaacggaca caatacattg tagtgtcaca cagcagtgtc 480
 66 ctcatggcag acaactaatt attcacagaa tacctcctta aaaatagagt cttcaacata 540
 68 gctttttcag tagtgtgtgg caaactgtag agtttgctct aaaattaacc atactggcca 600
 W--> 70 atcttggttag atttgaatat ttctataaaa aaaatttttt ttgacagaaa ttangtccat 660
 W--> 72 ggagaaagtg atttgtcaga aagcttgtaa aaaagtttgg ggctnggaaa aaaccggatt 720

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74 cgggtgattaa gatcaactcga tcttttaaaa gggacttggc ttttaantncc ataatggnc 780
 W--> 76 ttcaccgggg ggcntaaact tt 802
 79 <210> SEQ ID NO: 4
 80 <211> LENGTH: 794
 81 <212> TYPE: DNA
 82 <213> ORGANISM: Mus musculus
 84 <220> FEATURE:
 85 <221> NAME/KEY: misc_difference
 86 <222> LOCATION: (1)..(794)
 87 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
 90 <400> SEQUENCE: 4
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 W--> 95 naccagggc acccaagtga tacacatacg ttcaggaaan catacacata cgtttaagaa 180
 W--> 97 aactttataa aagttgtggc cagncggtgg tggcgcagtc ctttaatccc agcactgggg 240
 99 aggcagaggc aggcagatct cttgagtttt gggtttgagg ccaacctggt ctacaagagc 300
 101 aagcaagttc caggccagat aaggctacac agacatcttg tcttgaaaaa aagaaagaaa 360
 W--> 103 gaatgaaagt tgtagaaaac ctaaaaccgc gtgnnnaant ccnccttcc catgntgtta 420
 105 gtcctttggg gtttcaactgt aaggccataa cctcaggaat tgggagtgcc aggggacgga 480
 107 gtgccagggg gggcttctcc ctgtgatgtg aggaggctag ctccccgtt tcttccatt 540
 109 ttcagctatg tggtagtga cctcatggag agcgacctac accagatcat tcaactctca 600
 111 cagccgctca ccctggaaca tgtgagatac ttctgtacc agctgcttcg gggcctcaa 660
 113 tacatgcact ctgctcaggc catccaccgt gatcttaaac cctctaacct tctggtcaat 720
 115 gagaactgtg agctcaagat cgggtgacttt ggaatggccc gtggcctctg tacttcccc 780
 117 tgccgagcac caga 794
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 121 <211> LENGTH: 632
 122 <212> TYPE: DNA
 123 <213> ORGANISM: Mus musculus
 125 <220> FEATURE:
 126 <221> NAME/KEY: misc_difference
 127 <222> LOCATION: (1)..(632)
 128 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid
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 134 cacagttcca cttgagccca gggatggcat ctcaacatct ggacacacag gctcactagc 120
 W--> 136 cacaggctgc ananaagntg gaacgnattg ttgncgaatg ccctccngtc gtgcatgaaa 180
 138 gtcttcattc tcagccacaa tggcctcctt aatgcgctcc ctggttaagg cttcacgggt 240
 140 caaaagcaaa gtcaaaaggc ggggcgcaat caggctcatc atcagggtca tggtagttag 300
 W--> 142 ccagaagggg tgccaaggca gcagcagtna gattcgggcn ctgggttcaa ntgcacccat 360
 144 gcgtcccagc agggagaggc cctggcggtc agcacctggg tatactgtct cccaaggcac 420
 146 aggttgccctt ggtggcaggc tctggatata ggctcgacc ctttcagccc ccacagcctg 480
 148 aatcacagct ggtgacggag ttcccaacac catcatgac agctgtaact ggtgcacgta 540
 150 gtttttgccg gggaagagct ggcgcggagc cagcatctca ccaaagatgc agcccacaga 600
 152 ccagaggtcg attgctgctg gtatactcgt gc 632
 155 <210> SEQ ID NO: 6
 156 <211> LENGTH: 617
 157 <212> TYPE: DNA
 158 <213> ORGANISM: Mus musculus

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160 <220> FEATURE:

161 <221> NAME/KEY: misc_difference

162 <222> LOCATION: (1)..(617)

163 <223> OTHER INFORMATION: Wherein n is selected from any nucleic acid

166 <400> SEQUENCE: 6

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W--> 169 ttaaccttgn aaanagtttt tccctgaggc caagatagca natangctcn nnggagnncn      120
W--> 171 aaaaaagttt tgttctaaga ccanngaatn ggcagaatga agtggngaag gattagggag      180
W--> 173 antctggaat gacctnanta tggtagtag gaagggaaga aggatcagtt aatncagtca      240
W--> 175 caancnnntg ctaactaacg ngcctcctnt ttatgtaagc nattagcanc ngtttcnnga      300
W--> 177 ggcagttgga aattaaaatn ttgatatatg ttacacacag ggcctgtcac cacagtaggg      360
W--> 179 acttnatgnn ntntgggntc cagaagagca gtgctgaagg gacctgcagc taacttgaag      420
      181 gtactctctg gtatatgcc ttttctgtct cccagggcca gcagggtggc atcaagaaga      480
      183 tacctaagtc ttttgatgtg gtgaccaatg ccaaacggac cctcagggag ctgaagatcc      540
      185 tcaaacactt caaacacgac aatatcatcg ccatcaagga catcctgaag cctactgtgc      600
      187 cctatggaga attcttc                                617

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/888,182A

DATE: 05/07/2002
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 4,370,377,388,391,394,409,415,417,654,705,766,768,778,794
Seq#:4; N Pos. 5,20,24,37,48,51,54,57,58,65,66,82,98,110,111,121,160,204
Seq#:4; N Pos. 394,395,396,399,403,405,415
Seq#:5; N Pos. 12,14,17,23,42,51,132,134,138,146,154,167,329,340,351
Seq#:6; N Pos. 18,22,23,29,36,37,43,46,50,51,52,56,57,70,74,101,105,110,111
Seq#:6; N Pos. 112,117,118,120,144,145,150,166,170,182,196,198,234,244,246
Seq#:6; N Pos. 247,248,261,269,281,289,291,297,298,320,345,365,369,370,371
Seq#:6; N Pos. 373,378